

Pagination

Pagination A sophisticated and flexible pagination component designed to handle large datasets with intelligent page number display, multiple visual variants, and comprehensive accessibility features. Perfect for data tables, search results, content lists, and any interface requiring efficient navigation through paginated content. Uses the `ava-pagination-controls` selector for integration.

How to use ■ `import { AavaPaginationControlsComponent } from "@aava/play-core"` ; Basic

Usage ■ The most basic implementation with default settings and intelligent page number display.

Angular Preview Code `< aava-pagination-controls [type] = " ' basic' " [currentPage] = " currentPage " [totalPages] = " totalPages " [showNavigationButtons] = " true " (pageChange) = " onPageChange($event) " [rounded] = " true " > </ aava-pagination-controls >` `currentPage = 1 ; totalPages = 20 ; onPageChange (page : number) : void { this . currentPage = page ; }` Basic

Features ■ **Smart Ellipsis** : Automatically shows ellipsis for large page counts **Current Page**

Highlighting : Active page is visually distinguished **Navigation Buttons** : Previous/Next buttons with proper disabled states **Responsive Design** : Adapts to different screen sizes **Intelligent Truncation**

: Shows relevant pages around current selection **Size Variants** ■ Five size variants to

accommodate different interface densities and visual hierarchy requirements. **Angular Preview**

Code `< aava-pagination-controls [type] = " ' basic' " [currentPage] = " basicPage " [totalPages] = " 10 " [size] = " ' xl' " (pageChange) = " onPageChange($event) " > </ aava-pagination-controls > < aava-pagination-controls [type] = " ' basic' " [currentPage] = " basicPage " [totalPages] = " 10 " [size] = " ' lg' " (pageChange) = " onPageChange($event) " > </ aava-pagination-controls > < aava-pagination-controls [type] = " ' basic' " [currentPage] = " basicPage " [totalPages] = " 10 " [size] = " ' md' " (pageChange) = " onPageChange($event) " > </ aava-pagination-controls > < aava-pagination-controls [type] = " ' basic' " [currentPage] = " basicPage " [totalPages] = " 10 " [size] = " ' sm' " (pageChange) = " onPageChange($event) " > </ aava-pagination-controls > < aava-pagination-controls [type] = " ' basic' " [currentPage] = " basicPage " [totalPages] = " 10 " [size] = " ' xs' " (pageChange) = " onPageChange($event) " > </ aava-pagination-controls >`

`basicPage = 1 ; onPageChange (page : number) : void { this . basicPage = page ; }` **Available Sizes** ■ **XSmall** - Very compact size for minimal interfaces (12px font) **Small** - Compact size for

minimal content and dense interfaces (14px font) **Medium** - Standard size for most pagination

scenarios (16px font, default) **Large** - Prominent size for important content (20px font) **XLarge** -

Very prominent size for high-visibility interfaces (24px font) **Size Features** ■ **Responsive**

Typography : Font sizes scale appropriately with size variants **Consistent Spacing** : Button sizes

and gaps scale proportionally **Touch Targets** : All sizes maintain minimum 44px touch target

requirements **Visual Hierarchy** : Larger sizes provide better emphasis for important pagination

Advanced Features ■ **Icon-Only Navigation** ■ The `iconOnly` property allows navigation buttons to display only icons without text labels, creating a cleaner, more compact design. **Clear Styling** ■

The `clear` property (used internally by unfilled variants) provides transparent button backgrounds

| --pagination-page-label-font-weight | Dynamic | Font weight for page labels |

| --pagination-page-label-line-height | Dynamic | Line height for page labels |

| --pagination-page-label-gap | Dynamic | Gap between page label elements | Accessibility

Guidelines ■ **Keyboard Navigation** ■ **Tab** : Navigate to pagination and move between interactive elements **Arrow Left/Right** : Navigate between page numbers (when focused) **Enter** : Activate focused page number or navigation button **Space** : Activate focused page number or navigation button **Home** : Jump to first page (when supported) **End** : Jump to last page (when supported)

Screen Reader Support ■ Use descriptive labels that clearly indicate pagination purpose Provide context about total number of pages and current position Announce page changes and navigation actions Include current page information in accessible descriptions Use appropriate heading levels for pagination sections **Visual Design** ■ Maintain sufficient color contrast (4.5:1 minimum) for all states Provide clear focus indicators on interactive elements Ensure page number buttons meet minimum touch target size (44px) Use consistent visual hierarchy across all variants Support high contrast and reduced motion preferences

Best Practices ■ **Design Guidelines** ■ **Appropriate Variant Selection** : Choose variants based on dataset size and user needs **Consistent Spacing** : Maintain uniform spacing between pagination elements **Clear Visual Hierarchy** : Use proper contrast and sizing for current page indication **Responsive Design** : Ensure pagination works well on all screen sizes **Loading States** : Consider loading indicators during page transitions

Performance ■ **Efficient Rendering** : Use OnPush change detection for optimal performance **Event Handling** : Debounce rapid page changes if triggered programmatically **Memory Management** : Clean up event listeners and subscriptions **Bundle Optimization** : Import only needed variants to minimize bundle size **Virtual Scrolling** : Consider virtual scrolling for very large datasets

User Experience ■ **Intuitive Navigation** : Make it easy to jump to first/last pages **Page Size Options** : Consider adding page size selection for data tables **Breadcrumb Integration** : Use pagination with breadcrumbs for complex navigation **Search Integration** : Combine pagination with search functionality **URL State** : Sync pagination state with URL parameters for bookmarking **Implementation Considerations** ■ **State Management** : Properly manage pagination state in your application **Data Fetching** : Implement efficient data loading for each page **Error Handling** : Handle edge cases like invalid page numbers **Caching** : Cache previously visited pages for better performance **Analytics** : Track pagination usage for user behavior insights

Accessibility Implementation ■ **Semantic HTML** : Use proper HTML structure for pagination elements **ARIA Attributes** : Implement appropriate ARIA labels and roles **Focus Management** : Ensure logical tab order and focus indicators **Screen Reader Testing** : Test with actual screen readers **Keyboard Testing** : Verify complete keyboard navigation flow

Technical Notes ■ **Component Architecture** ■ The pagination component uses a modern Angular architecture with:

PaginationControlsComponent - Main component with multiple variants

ButtonComponent integration for consistent button styling OnPush change detection for optimal performance ViewEncapsulation.None for global CSS variable access

MUI-Style Pagination Logic ■ The component implements Material-UI style pagination with intelligent page number display: Smart

Ellipsis : Automatically shows ellipsis for large page counts Context-Aware Display : Shows relevant pages around current selection Optimal Truncation : Balances information density with usability Responsive Behavior : Adapts to different total page counts Size System ■ The component provides a comprehensive size system: Font Scaling : Each size maps to specific pixel values (12px to 24px) Button Scaling : Button dimensions scale proportionally with font size Touch Targets : All sizes maintain minimum 44px touch target requirements CSS Variables : Uses semantic CSS variables for consistent theming Variant System ■ The component supports multiple visual variants: Basic Variants : Traditional pagination with filled styling Unfilled Variants : Modern design with transparent backgrounds Page Info Variants : Text-based alternatives to page numbers Icon-Only Options : Clean navigation without text labels

```
<aava-pagination-controls
  [type]=" 'basic' "
  [currentPage]="currentPage"
  [totalPages]="totalPages"
  [showNavigationButtons]="true"
  (pageChange)="onPageChange($event) "
  [rounded]="true"
>
</aava-pagination-controls>
```

```
currentPage = 1;
totalPages = 20;

onPageChange(page: number): void {
  this.currentPage = page;
}
```

```

<aava-pagination-controls
  [type]=" 'basic' "
  [currentPage]="basicPage"
  [totalPages]="10"
  [size]=" 'xl' "
  (pageChange)="onPageChange($event) "
></aava-pagination-controls>
<aava-pagination-controls
  [type]=" 'basic' "
  [currentPage]="basicPage"
  [totalPages]="10"
  [size]=" 'lg' "
  (pageChange)="onPageChange($event) "
></aava-pagination-controls>
<aava-pagination-controls
  [type]=" 'basic' "
  [currentPage]="basicPage"
  [totalPages]="10"
  [size]=" 'md' "
  (pageChange)="onPageChange($event) "
></aava-pagination-controls>
<aava-pagination-controls
  [type]=" 'basic' "
  [currentPage]="basicPage"
  [totalPages]="10"
  [size]=" 'sm' "
  (pageChange)="onPageChange($event) "
></aava-pagination-controls>
<aava-pagination-controls
  [type]=" 'basic' "
  [currentPage]="basicPage"
  [totalPages]="10"
  [size]=" 'xs' "
  (pageChange)="onPageChange($event) "
></aava-pagination-controls>

```

```
basicPage = 1;
```

```
onPageChange(page: number): void {
  this.basicPage = page;
}
```

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